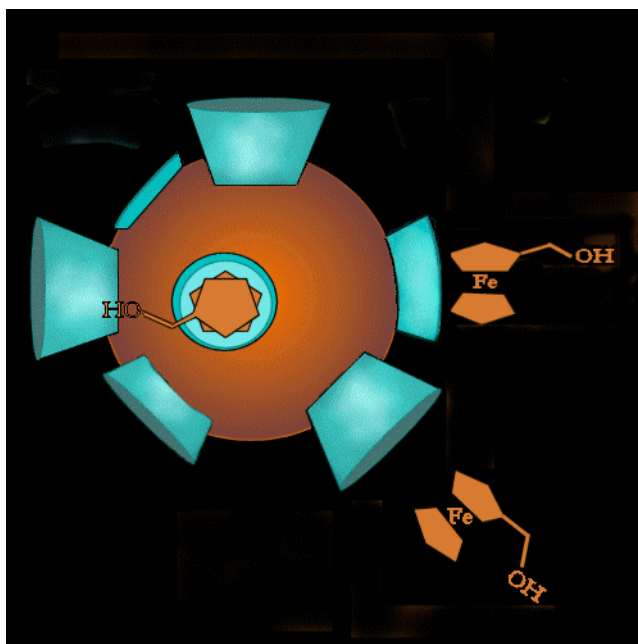


GRANT DMR-0072034

**TITLE: Metal Nanospheres Modified with
Molecular Receptors**

PI: Angel E. Kaifer



- Preparation and Characterization of Au and Pd nanoparticles modified with thiolated cyclodextrins.
- Cyclodextrin receptors maintain their binding activity, which can be used for reversible aggregation/assembly.
- Cyclodextrin-capped Pd nanoparticles serve as novel catalysts in hydrogenation and Suzuki coupling reactions.

GRANT DMR-0072034 (Slide 2)

**TITLE: Metal Nanospheres Modified with
Molecular Receptors**

PI: Angel E. Kaifer

- The PI's research group has been very effective at training underrepresented minorities. Out of 13 Ph.D. graduates from 1992, *eight* were of Hispanic origin and *five* were women.
- The PI wrote an article in Spanish on this research topic addressed to a general audience. This article, published by *Anales de la Real Sociedad Española de Química*, reaches high-school teachers in Spain and Latin America.